

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMEN United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,933		04/02/2004	Alexander Buhl	41653-201032	9442	
26694	7590	05/09/2005		EXAMINER		
VENABL!	E LLP			TAWFIK, SAMEH		
P.O. BOX				ADTIBUT	DARED VIII ARER	
WASHING	TON, DO	20435-9998		ART UNIT	PAPER NUMBER	
		•		3721		
				DATE MAILED: 05/09/2009	DATE MAILED: 05/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)	
	10/815,933	BUHL ET AL.	
Office Action Summary	Examiner	Art Unit	
_	Sameh H. Tawfik	3721	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a epply within the statutory minimum of thir by will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	imunication.
Status			
1) Responsive to communication(s) filed on <u>05</u>	April 2005.		
2a)⊠ This action is FINAL . 2b)☐ Th	nis action is non-final.		144
3) Since this application is in condition for allow closed in accordance with the practice under			nerits is
Disposition of Claims			
4) ☐ Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) 14-26 is/are withdres 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Examin	awn from consideration. /or election requirement. ner. ccepted or b) □ objected to ne drawing(s) bè held in abeyar ection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume 4 See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been eau (PCT Rule 17.2(a)).	opplication No received in this National S	tage
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	C) [] Notice of	s)/Mail Date nformal Patent Application (PTO- 	152)

Art Unit: 3721

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 11-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Slayter et al. (3,050,427).

Slayter discloses a method for producing a non-woven fiber composite for the manufacture of filters in the tobacco industry (column 2, lines 50-54; via "and many other uses") the method comprising feeding separated fiber materials (Fig. 1; via fiber separated fiber material 34) to a fluidized bed (Fig. 1; via suction box 31 and chain 29) transporting the separated filter material inside the fluidized bed to a rod-forming device essentially by a transport air flow flowing in the direction of the rod-forming device (Figs. 1 and 2; via air flow through the upper opening of 23 by hopper 24 and roller 21 toward the suction box 31, which make the air flow flowing in the direction of the rod forming device), and compiling the filter material on the rod-forming device (via by roll 32 and chain 41).

Regarding claim 2: wherein the filter material comprises fibers (via fibers 34).

Regarding claim 3: further comprising providing fibers of different compositions (Fig. 1; via by spraying bonds 39 would effect the fibers composition and by un-equally spraying the bond 39, that will make the fibers of different compositions).

Art Unit: 3721

Regarding claim 4: wherein the fibers (34) in the fluidized bed (via 29 and 31) further comprises at least one additive (via binder 39).

Regarding claim 5: wherein the separated fibers (34) have a length from about 2 to about 100mm.

Regarding claim 6: wherein the average fiber diameter of the separated fibers (34) is in the range of from about 10 to about $40\mu m$.

Regarding claim 7: wherein the average fiber diameter of the separated fibers (34) is in the range of from about 20 to about 38 µm.

Regarding claim 11: successively feeding separated fiber materials (34) of differing composition (via by spraying bonds 39) to the fluidized bed (via 31 and 29).

Regarding claim 12: wherein the feeding step further comprises the separating of fibers (Fig. 1; via by drum 26).

Regarding claim 13: further comprises forming a continuous fiber filter rod (Fig. 1; via 16) from the compiled fibers (13) and dividing the continuous rod (16) into individual filter sections (34).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slayter et al. (3,050,427).

Art Unit: 3721

Slayter does not disclose that the separated fibers are synthetic fibers. However, the examiner takes an official notices that using synthetic fibers is old, well known, and available in the art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Slayter's method for producing a non-woven fiber, by using a synthetic fibers, in order to easily shaping the filters to specific shape.

Regarding claim 9: Slayter discloses that the fiber (34) strength of the synthetic fibers is from about 1 to about 20 dtex.

Regarding claim 10: Slayter discloses that wherein the fiber strength of the synthetic fibers (34) is from about 2 to about 6 dtex.

Response to Arguments

Applicant's arguments filed 04/05/2005 have been fully considered but they are not persuasive.

Applicants argue in page 9 of the arguments that Slayter's reference does not disclose a fluidized bed as described in Hawley's Condensed Chemical Dictionary as "a technique in which a finely divided solid is caused to behave like a fluid by suspending it in a moving gas or liquid." That separated fibers are suspended in air as the fibers move along the fluidized bed, Slayter does not utilize a fluidized bed where the fibers are suspended in a moving gas. The examiner believes that Slayter disclosed a "fluidized bed" as described by the Hawaley's dictionary as "a technique in which a finely divided solid (via 34) is caused to behave like a fluid (via by flowing downwardly) by suspending it in a moving gas or liquid (via by using the vacuum means to flow gas downwardly)." Note that using the vacuum means to suck the air downwardly with the

Art Unit: 3721

divided solid 34 could be consider as via 34 behaving like a fluid by suspending it in a moving gas via sucking air.

Applicants further argue in page 9 and 10 of the arguments that in the applicants invention the fluidized bed occurs when transport air, running in a substantially horizontal direction, meets the falling fiber particles; as Slayter bears no mention of air flow and can not anticipate the present invention. The examiner believes that applicants arguing about something not disclosed on the claim language "running in a substantially horizontal direction" was not disclosed on the claim language.

Applicants argue in page 10 of the arguments that the present claims require transport "essentially by a transport air flowing in the direction of the rod forming device." Transport, as it occurs in the claimed device is in a horizontal direction. The examiner believes that such transfer as claimed could be also consider transfer in vertical direction as disclosed on Slayter's reference and not as argued by applicants in horizontal direction. Note that the sucked air by vacuum means in Slayter could be consider as transporting means while transporting 34 downwardly.

Applicants again argue in page 10 of the arguments that Slayter does not disclose air moving in a horizontal direction to transport air flow flowing in the direction of the rod forming device. The examiner believes that applicants argue for something not clearly disclosed on the claim language, which is the air moving in a horizontal direction.

Applicants argue in page 11 of the arguments that Slayter's reference does not disclose method for producing a nonwoven fiber composite for the manufacture of filters in the tobacco

Art Unit: 3721

industry. The examiner believes that such limitations not positively claimed on the body of the claim, it is only on the preamble of the claim, which is not given much weight.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sameh H. Tawfik whose telephone number is 571-272-4470.

The examiner can normally be reached on Tuesday - Friday from 8:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3721

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sameh H. Tawfik Patent Examiner Art Unit 3721

ST.